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ORIGINAL MAILED?

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YES

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NO

SPECIAL INSTRUCTIONS:

TI: Seed quality in relation to seed size in radish.

AU: Pandita-VK; Randhawa-KS

AD: IARI, Regional Station, Karnal 132 001, India.

SO: Seed-Research. 1992, publ. 1993, 20: 1, 47-48; 2 ref.

PY: 1992

LA: English

AB: In a trial on radish cultivars Pusa Rashmi and Pusa Chetki, seeds were graded into 3 size categories (>2.75 mm, between 1.5 and 2.75 mm and <1.5 mm). Germination percentage (between rolled paper towels in the laboratory) and seedling emergence percentage (in pots) increased significantly with increasing seed size.

DE: seed-germination; seedling-emergence; seedlings-; radishes-; seeds-; quality-; assessment-; size-; germination-; emergence-; seed-size; vegetables-; root-crops

OD: raphanus-sativus; Brassicaceae-

GE: India-; Haryana-

BT: Spermatophyta; plants; Raphanus; Brassicaceae; Capparidales; dicotyledons; angiosperms; Commonwealth-of-Nations; Developing-Countries; South-Asia; Asia, India

CC: FF160

CD: Plant-Propagation

PT: Journal-article

IS: 0379-5594

UD: 960116

AN: 950305458

Record 3 of 26 - CAB Abstracts 1992

TI: Effects of pollen-load size and number of donors on sporophyte fitness in wild radish (Raphanus raphanistrum).

AU: Snow-AA

AD: Smithsonian Environmental Research Center, Box 28, Edgewater, MD 21037, USA.

SO: American-Naturalist. 1990, 136: 6, 742-758; 52 ref.

PY: 1990

LA: English

AB: The effects of past and current pollen competition on sporophytic fitness were investigated. The intensity of previous pollen competition had no overall effect on progeny characteristics such as seed size, germination rate, plant size or fecundity, measured in field and greenhouse environments. Pollen from "intense" previous competition was used to test for separate effects of pollen-load size (60 vs. 300 grains) and number of pollen donors/stigma (1 vs. 3). These treatments had no effects on progeny fitness.

DE: Radishes-; Genetic-resources; pollen-competition; biology-; pollen-; ecology-; intraspecific-competition; germination-; seed-production; size-; weeds-

OD: Raphanus-raphanistrum; Raphanus-sativus

GE: USA-

ID: seed-characteristics; plant-genetic-resources

BT: plants; Raphanus; Cruciferae; Capparidales; dicotyledons; angiosperms; Spermatophyta; North-America; America

CC: FF020; FF060; PP700; FF500; PP720; FF100

CD: Plant-Breeding-and-Genetics; Plant-Physiology-and-Biochemistry; Biological-Resources-General; Weeds-and-Noxious-Plants; Biological-Resources-Plant; Plant-Production

PT: Journal-article

IS: 0003-0147

UD: 950316

AN: 921626511

Record 4 of 26 - CAB Abstracts 1990-1991

TI: Occurrence of the beet leafhopper-transmitted virescence agent in red and daikon radish seed plants in Washington State.

CD: Plant-Production; Plant-Physiology-and-Biochemistry; Plant-Composition;
Composition-and-Quality-of-Plant-Products

PT: Journal-article

UD: 950314

AN: 860701342

Record 9 of 26 - CAB Abstracts 1984-1986

TI: Seed variation in wild radish; effect of seed size on components of seedling and adult fitness.

AU: Stanton-ML

AD: Dep. of Biol., Yale Univ., New Haven, CT 06511, USA.

SO: Ecology. 1984, 65: 4, 1105-1112.

PY: 1984

LA: English

AB: The size of seed selected from single plants of wild radish (*Raphanus raphanistrum*) and sown close together under natural conditions on a sporadically cultivated site did not effect the date of seedling emergence, but the proportion of emerged seedlings was higher for seeds weighing >6 mg than for those weighing < 4 mg. Seedlings from large seeds grew more rapidly and produced more flowers than those from related smaller seeds. In the greenhouse, however, seed size had little or no influence on plant size at maturity. The significance of experimental conditions for the study of seed size variation in relation to seedling development is discussed.

DE: seeds-; Techniques-; germination-; seed-size; weeds-

OD: *Raphanus-raphanistrum*

GE: Connecticut-; USA-

BT: plants; *Raphanus*; Cruciferae; Capparidales; dicotyledons; angiosperms; Spermatophyta; New-England-States-of-USA; Northeastern-States-of-USA; USA; North-America; America

CC: FF500; ZZ900; FF100; SS230

CD: Weeds-and-Noxious-Plants; Techniques-and-Methodology; Plant-Production;
Composition-and-Quality-of-Plant-Products

PT: Journal-article

IS: 0012-9658

UD: 950314

AN: 850774552

Record 10 of 26 - CAB Abstracts 1982-1983

TI: The effects of seed size on germination characteristics of several vegetable species.

OT: Effetto della calibratura del seme sulle caratteristiche germinative di alcune specie ortensi.

AU: Macchia-M; Magnani-G

AD: Istituto di Agronomia e Coltivazioni Erbacee, Università di Pisa, Italy.

SO: Notiziario-di-Ortoflorofrutticoltura. 1982, 8: 5, 220-223; 2 ref.

PY: 1982

LA: Italian

AB: Seeds of turnip (cv. Toscana), cabbage, radish (cv. Cherry Belle), leek (cv. Gigante d'Inverno), endive (cv. Pancalieri) and carrot (cv. Nantes) were calibrated into 3-5 size categories, and for each category data on the following are tabulated: percentage of the total seed weight, 1000-seed weight, percentage germination and germination vigour. Germination vigour was unaffected by seed size. Percentage germination was affected in leek where it was lower in the very largest seeds, in endive where it was much lower in the smallest seeds, and in carrot where it increased regularly with seed size.

DE: radishes-; turnips-; cabbages-; leeks-; endives-; carrots-; vegetables-; seeds-; germination-; size-

OD: *Raphanus-sativus*; *Brassica-campestris-var.-rapa*; *Brassica-oleracea-var.-capitata*; *Allium-porrum*; *Cichorium-endivia*; *Daucus-carota*

BT: *Raphanus*; Cruciferae; Capparidales; dicotyledons; angiosperms; Spermatophyta;

UD: 950203

AN: 820308469

Record 13 of 26 - CAB Abstracts 1979-1981

TI: Brassicas.

CA: Netherlands, Glasshouse Crops Research and Experimental Station.

SO: Netherlands, -Glasshouse-Crops-Research-and-Experimental-Station: -Annual-report- 1979. 1979, 109 pp.

PB: Naaldwijk.; Netherlands

PY: 1979

LA: English

AB: Chinese cabbages: Studies of tipburn, and plant spacing at different day/night temperature regimes. Kohlrabi; Variety trials; response to N; relationship between seed size and root diameter at harvest; and bromide residues. Radishes: Variety trials; effect of mulching at different light intensities; response to N; growth at different day/night temperature regimes; different sowing distances compared; and bromide residues.

DE: Chinese-cabbages; kohlrabi-; radishes-; vegetables-

OD: Cruciferae-; Brassica-; Brassica-oleracea-var.-gongylodes; Raphanus-sativus

GE: Netherlands-

BT: Capparidales; dicotyledons; angiosperms; Spermatophyta; plants; Cruciferae; Brassica-oleracea; Brassica; Raphanus; Western-Europe; Europe

CC: AA000

CD: Agriculture-General

PT: Annual-report

UD: 950202

AN: 810391713

Record 14 of 26 - CAB Abstracts 1979-1981

TI: Effect of seed size and sowing dates on germination and yield of radish (Raphanus sativus L.) roots.

AU: Gill-SS; Hari-Singh

AD: Punjab Agricultural University, Ludhiana, India.

SO: Seed-Research. 1979, 7: 1, 58-62; 9 ref.

PY: 1979

LA: English

AB: In 2-year field and laboratory trials with the radish cv. Punjab Sufaid, field germination was highest (80.7-86.9%) in medium size seeds (100 seeds weighing 1.367-1.382 g). Root yield was highest with sowing in mid-October compared with sowings made from 1 September to 1 December.

DE: radishes-; seeds-; germination-; seed-size; sowing-; dates-; vegetables-; root-crops

OD: Cruciferae-; Raphanus-sativus

GE: India-

BT: Capparidales; dicotyledons; angiosperms; Spermatophyta; plants; Raphanus; Cruciferae; South-Asia; Asia

CC: FF160

CD: Plant-Propagation

PT: Journal-article

IS: 0379-5594

UD: 950220

AN: 800385511

Record 15 of 26 - CAB Abstracts 1979-1981

TI: Some aspects of seed size and plant spacing on the maturity characteristics of radish.

AU: Lee-SK; Nichols-MA

AD: Massey University, Palmerston North, New Zealand.

SO: Acta-Horticulturae. 1978, No.72, 191-199; 10 ref.

PY: 1978

LA: English

melongena; Cichorium-endivia; Brassica-oleracea-var.-gongylodes; Allium-porrum;
Lactuca-sativa; Cucumis-melo; Raphanus-sativus; Lycopersicon-esculentum

GE: Netherlands-

ID: Glasshouse-Crops-Research-and-Experimental-Station

BT: Solanaceae; Solanales; dicotyledons; angiosperms; Spermatophyta; plants;
Sphaerotheca; Erysiphales; Ascomycotina; Eumycota; fungi; Tetranychus;
Tetranychidae; Prostigmata; Acari; Arachnida; arthropods; invertebrates; animals;
Deuteromycotina; Brassica-oleracea; Brassica; Cruciferae; Capparidales;
Cucurbitaceae; Violales; Cucumis; Solanum; Cichorium; Compositae; Asterales;
Allium; Alliaceae; Liliales; monocotyledons; Lactuca; Raphanus; Lycopersicon;
Western-Europe; Europe

CC: AA000

CD: Agriculture-General

PT: Annual-report

UD: 950127

AN: 780363678

Record 17 of 26 - CAB Abstracts 1976-1978

TI: The effect of spacing and seed size on radish yield.

OT: Wplyw-rozstawy oraz wielkosci nasion na plon rzodiewki.

AU: Gapinski-M; Borna-Z

AD: Akademia Rolnicza, Poznan, Poland.

SO: Roczniki-Akademii-Rolniczej-w-Poznaniu, -Ogrodnictwo. 1974, 69: 5, 43-51; 8 ref.

PY: 1974

LA: Polish

LS: English, Russian

AB: Seeds <2 mm, 2-2.5 mm and >2.5 mm in diameter were used. The plants were spaced
at 2, 3, 4 or 5 cm in the row with 5, 10, 15 or 20 cm between rows. Optimum
results were obtained from plants spaced at 2-3 cm with 5-10 cm between the rows.
Seed size had no appreciable effect on crop quality or quantity.

DE: radishes; seeds; sowing; density; vegetables; root-crops

OD: Cruciferae; Raphanus-sativus

BT: Capparidales; dicotyledons; angiosperms; Spermatophyta; plants; Raphanus;
Cruciferae

CC: FF100

CD: Plant-Production

PT: Journal-article

IS: 0137-1738

UD: 950127

AN: 760348095

Record 18 of 26 - CAB Abstracts 1976-1978

TI: Some aspects of seed germination in vegetables. II. The effect of temperature
fluctuation, depth of sowing, seed size and cultivar, on heat sum and minimum
temperature for germination.

AU: Wagenvoort-WA; Bierhuizen-JF

AD: Landbouwhogeschool, Wageningen, Netherlands.

SO: Scientia-Horticulturae. 1977, 6: 4, 259-270; 6 ref.

PY: 1977

LA: English

AB: The germination period of seeds can be predicted for any soil temperature with
the use of a heat sum (S) and a minimum temperature for germination (Tmin).
Experiments with vegetable seeds of 31 species were carried out to establish
whether S and Tmin were affected by diurnal soil temperature variation, depth of
sowing or variation in seed size (of radish) and whether greater differences were
to be expected between cvs (of lettuce). In general the above-mentioned variables
did not greatly affect Tmin and S. For practical purposes, an optimum temperature
range for germination was established. [For part I see HcA 45, 3106.]

DE: vegetables; radishes; lettuces; seeds; germination; environmental factors;
effects; root-crops; temperature

OD: Raphanus-
GE: Poland-
BT: Cruciferae; Capparidales; dicotyledons; angiosperms; Spermatophyta; plants;
Central-Europe; Europe
CC: FF020
CD: Plant-Breeding-and-Genetics
PT: Miscellaneous
UD: 950126
AN: 761639478

~~Record 21 of 26 - CAB Abstracts 1976-1978~~

TI: Relation between root weight, seed size and conditions of cultivation in radish.

AU: Kononkov-PF; Kravchuk-V-Ya

SO: Selektsiya-i-semenovodstvo-ovoshch.-kul'tur,-2. 1974, 63-67.

PB: Moskovskii rabochii.; Moscow; USSR

PY: 1974

LA: Russian

AB: The seeds of nine varieties were divided into fractions with a diameter over and under 2.5 mm and sown under different photoperiodic conditions. There was an increase in the average weight of the roots when the plants from the large-seed fraction were grown in a short day. The root weight of varieties of the type Rozovo-krasnyi s belym konchikom [Pink-red white-tipped] depended on seed size and photoperiodic conditions to a greater extent than it did in varieties of the type Saxa.

DE: seed-size; roots-; photoperiodism-; radishes-; development-; vegetables-; root-crops; weight-

OD: Raphanus-; Cruciferae-; Raphanus-sativus

GE: Russia-; USSR-

ID: root-development

BT: Cruciferae; Capparidales; dicotyledons; angiosperms; Spermatophyta; plants;
Raphanus; Asia; Central-Europe; Europe

CC: FF020; FF160

CD: Plant-Breeding-and-Genetics; Plant-Propagation

PT: Miscellaneous

CI: Referativnyi Zhurnal (1975) 5.55.575.

UD: 950126

AN: 761647170

~~Record 22 of 26 - CAB Abstracts 1972-1975~~

TI: The effect of spacing and seed size on radish yield.

OT: Wplyw rozstawy oraz wielkosci nasion na plon rzodkiewki.

AU: Gapinski-M; Borna-Z

AD: Akademia Rolnicza, Poznan, Poland.

SO: Roczniki-Akademii-Rolniczej-w-Poznaniu. 1974, 69: 5, 43-51; 8 ref.

PY: 1974

LA: Polish

LS: English, Russian

AB: The rows were spaced 5, 10, 15 or 20 cm apart and the plants in the rows 2, 3, 4 and 5 cm apart. The seeds used were <2 mm, from 2 to 2.5 mm or >2.5 mm in diameter. The greatest yield was obtained with rows 5 cm apart and plants 3 cm apart in the rows. Seed size had little effect on yield.

DE: radishes-; seeds-; sowing-; spacing-; vegetables-; root-crops

OD: Cruciferae-; Raphanus-sativus

GE: Poland-

BT: Capparidales; dicotyledons; angiosperms; Spermatophyta; plants; Raphanus;
Cruciferae; Central-Europe; Europe

CC: FF100

CD: Plant-Production

PT: Journal-article

UD: 950125

characters in radish varieties.

AU: Kravchuk-V-Ya

SO: Tr.-VNII-selcktsii-i-semenovodstva-ovoshch.-kul'tur. 1971, No.4, 22-25.

PY: 1971

LA: Russian

AB: A study was made of 20 varietal samples in two seed-size fractions: diameter >2.5 mm and diameter <2.5 mm. A weak correlation was found between the main characters in the different varieties and their 1000-grain weight ($r = 0.1-0.34$). A direct correlation was observed between the quantitative values of the main economically valuable characters and the size (diameter) of the seeds.

DE: seed-size; vegetables-

OD: Raphanus-

BT: Cruciferae; Capparidales; dicotyledons; angiosperms; Spermatophyta; plants

CC: FF020

CD: Plant-Breeding-and-Genetics

PT: Journal-article

CI: Referativnyi Zhurnal (1972) 6.55.543.

UD: 950125

AN: 751625474

Record 26 of 26 - CAB Abstracts 1972-1975

TI: Effect of nitrogen, potash and seed size on radish.

AU: Arora-PN

AD: Indian Agricultural Research Institute, New Delhi.

SO: Indian-Journal-of-Agronomy. 1971, 16: 4, 526-527.

PY: 1971

LA: English

AB: [515:22].

DE: responses-; radishes-; nitrogen-fertilizers; potassium-fertilizers

OD: Raphanus-sativus

BT: fertilizers; Raphanus; Cruciferae; Capparidales; dicotyledons; angiosperms; Spermatophyta; plants

CC: JJ700; FF000

CD: Fertilizers-and-other-Amendments; Plants-of-Economic-Importance-General

PT: Journal-article

IS: 0537-197X

UD: 950124

AN: 731904400